





Worklist: 6976

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2024-1731	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ	
C2024-2232	1	BCK	AM 28 Blood Multi-Drug Quant Panel 2 by LC-QQQ	

## Panel 2 - AM# 28: Multi-Drug Quantitation by LC-MS/MS

Extraction Date: 11/19/24

Plate lot 240924

Mobile phase A: 5mM Amm Form + 0.01% FA

Blank Blood Lot: 24C52044

Column: Agilent 120 EC-C18 (2.1x 100-2.7um)

Analyst: Anne Nord

Plate Retest Date: 3/24/2025

Mobile phase B: 0.01% Formic Acid in MeOH

Blank Urine Lot: Blood only

LCMS-QQQ ID: 69679

### Pre-Analytic:

- ☒ 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- ☒ 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

### Analytic:

- ☒ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- ☒ 2. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate. **Pipette ID: 390993** **Urine Hydrolysis: add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes**
- ☒ 3. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- ☒ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ☒ 5. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate. Amount transferred: *250*
- ☒ 6. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent). **(Load at 85-100 PSI- Selector to the right).**
- ☒ 7. Wait 5 minutes.
- ☒ 8. Add **900uL ethyl acetate.**
- ☒ 9. Wait 5 minutes.
- ☒ 10. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- ☒ 11. Add **900uL ethyl acetate.**
- ☒ 12. Wait 5 minutes.
- ☒ 13. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- ☒ 14. Remove plate containing eluate. Place on SPE Dry 75401 and evaporate to dryness at approx. 35°C. ☐ **If run contains urine or at the analyst's discretion, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying (optional).**
- ☒ 15. Reconstitute in **100µL 20% LC MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- ☒ 1. Create batch and process data.
- ☒ 2. Make necessary changes to integration limits
- ☒ 3. Integration linear and R<sup>2</sup> values ≥0.98 for each analyte.
- ☒ 4. For unknown samples and controls: response ratio within 20% of average of controls and standards, RT within +/- 5% (tramadol RT +/-2%), S/N for primary transition >10 and secondary transitions >5.
- ☒ 5. Did all QCs pass for each analyte? Yes, see comments Add Control data to QC tracking spreadsheet.
- ☒ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports.

### COMMENTS:

*Compounds evaluated:*

*Methocarbamol*

*Clomipramine*

*Topiramate* Curve limitation 5-500 cal 8 dropped due to accuracy



	1 mixing plate 5 SLE and Injection	2 mixing plate 6 SLE and Injection
A	IS + Cal. 1	IS + QC_1
B	IS + Cal. 2	IS + QC_2
C	IS + Cal. 3	IS + QC 3
D	IS + Cal. 4	IS + QC_4
E	IS + Cal. 5	
F	IS + Cal. 6	<del>negative blood</del>
G	IS + Cal. 7	<del>1731-1</del>
H	IS + Cal. 8	<del>2232-1</del>

11/21/24


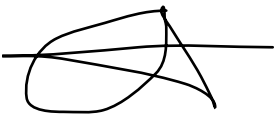
 See next page with correct positioning

plate position 2



	1 mixing plate 5 SLE and Injection	2 mixing plate 6 SLE and Injection
A	IS + Cal. 1	IS + QC_1
B	IS + Cal. 2	IS + QC_2
C	IS + Cal. 3	IS + QC 3
D	IS + Cal. 4	IS + QC_4
E	IS + Cal. 5	negative blood
F	IS + Cal. 6	1731-1
G	IS + Cal. 7	2232-1
H	IS + Cal. 8	

plate position 2

c2024-\_\_\_\_-\_\_

# AM #28 Multi-Drug Quant. Results

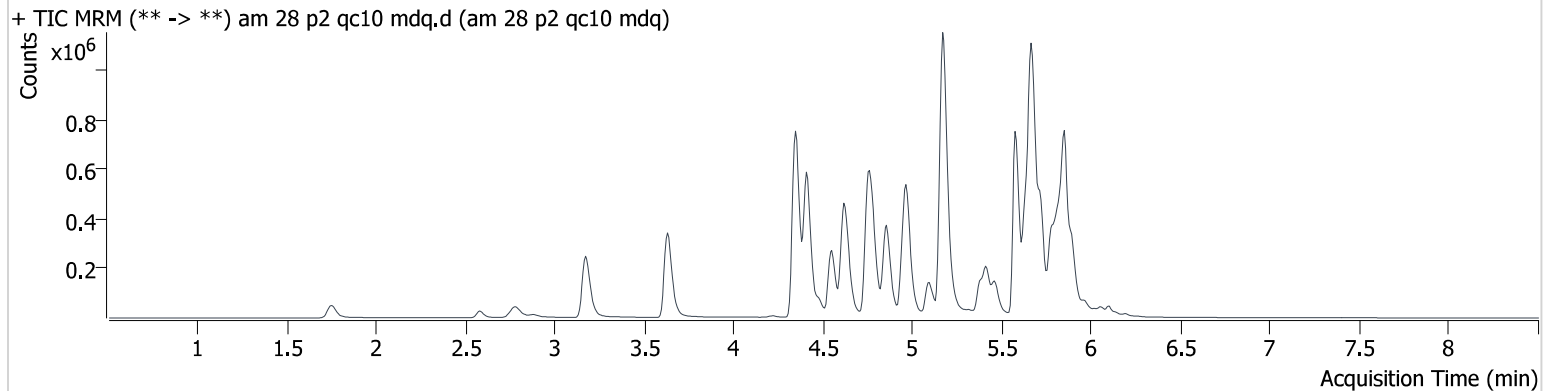
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**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-A6  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 6:26:21 PM  
**Sample Info.**

**Data File** am 28 p2 qc10 mdq.d  
**Sample** am 28 p2 qc10 mdq  
**Operator** Anne Nord  
**Comment**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.849	122804	913.9	90.29	935.2	620069	9.562 ng/ml
methocarbamol	4.380	12274	1287.1	75.10	277.1	756314	10.930 ng/ml
Topiramate	4.948	743	85.0	43.34	38.2	5882	11.131 ng/ml

# AM #28 Multi-Drug Quant. Results

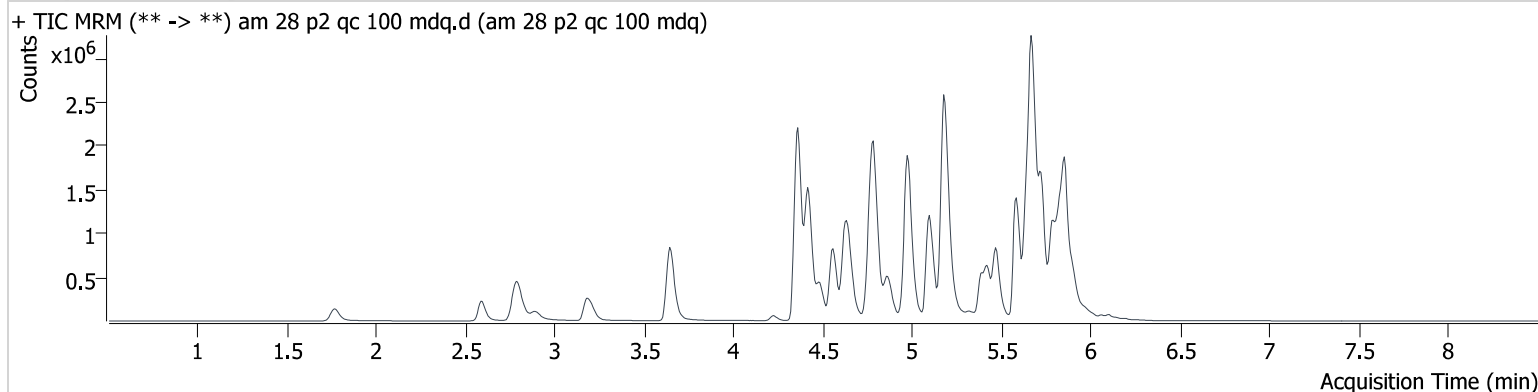
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**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-B6  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 7:30:56 PM  
**Sample Info.**

**Data File** am 28 p2 qc 100 mdq.d  
**Sample** am 28 p2 qc 100 mdq  
**Operator** Anne Nord  
**Comment**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.849	1028676	48355.7	90.64	13552.0	501997	96.300 ng/ml
methocarbamol	4.387	89613	2538.3	77.79	1368.1	653159	95.600 ng/ml
Topiramate	4.948	7243	268.0	43.65	189.8	5826	106.105 ng/ml

# AM #28 Multi-Drug Quant. Results

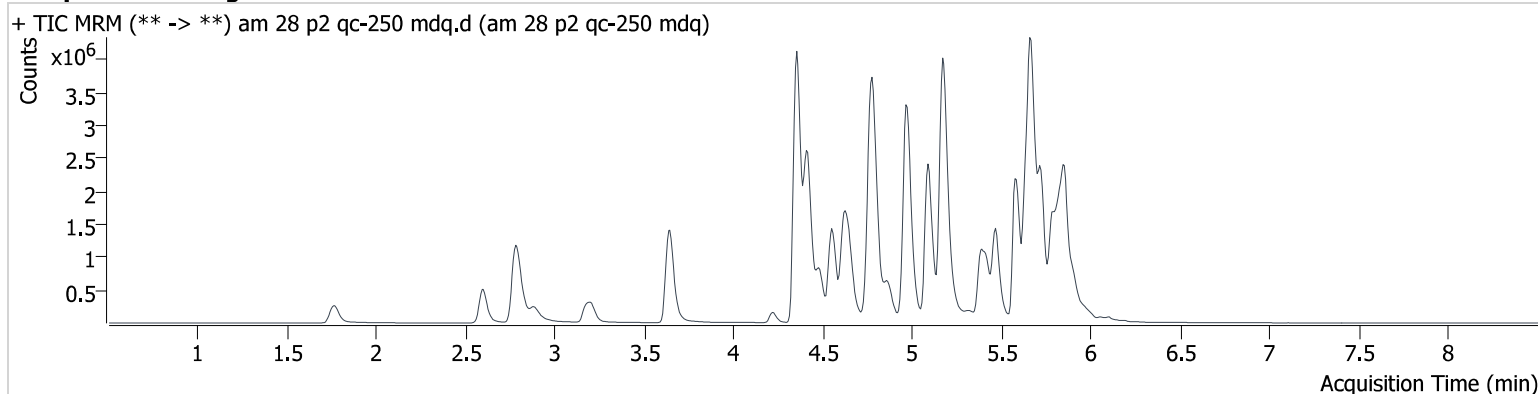
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**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-C6  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 6:35:35 PM  
**Sample Info.**

**Data File** am 28 p2 qc-250 mdq.d  
**Sample** am 28 p2 qc-250 mdq  
**Operator** Anne Nord  
**Comment**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
Clomipramine	5.849	1519815	44301.1	87.80	52661.4	269369	264.655	ng/ml
methocarbamol	4.380	169749	55141.7	77.00	155200.4	385895	307.456	ng/ml
Topiramate	4.941	16814	1056.8	44.41	232.8	5957	240.421	ng/ml

# AM #28 Multi-Drug Quant. Results

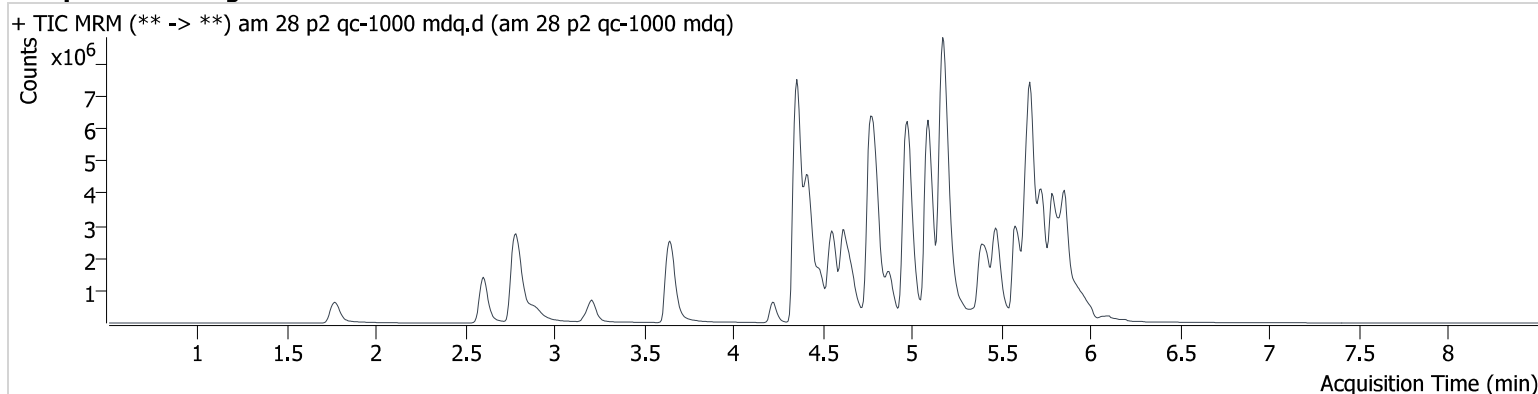
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**Instrument** 69679  
**Type** QC  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-D6  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 6:44:49 PM  
**Sample Info.**

**Data File** am 28 p2 qc-1000 mdq.d  
**Sample** am 28 p2 qc-1000 mdq  
**Operator** Anne Nord  
**Comment**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.849	3036312	112478.8	88.42	97277.4	138853	1024.906 ng/ml
methocarbamol	4.380	242010	260505.1	79.59	317213.8	190419	889.129 ng/ml
Topiramate	4.935	40744	28711.8	43.61	4019.3	4767	727.203 ng/ml



# AM #28 Multi-Drug Quant. Results

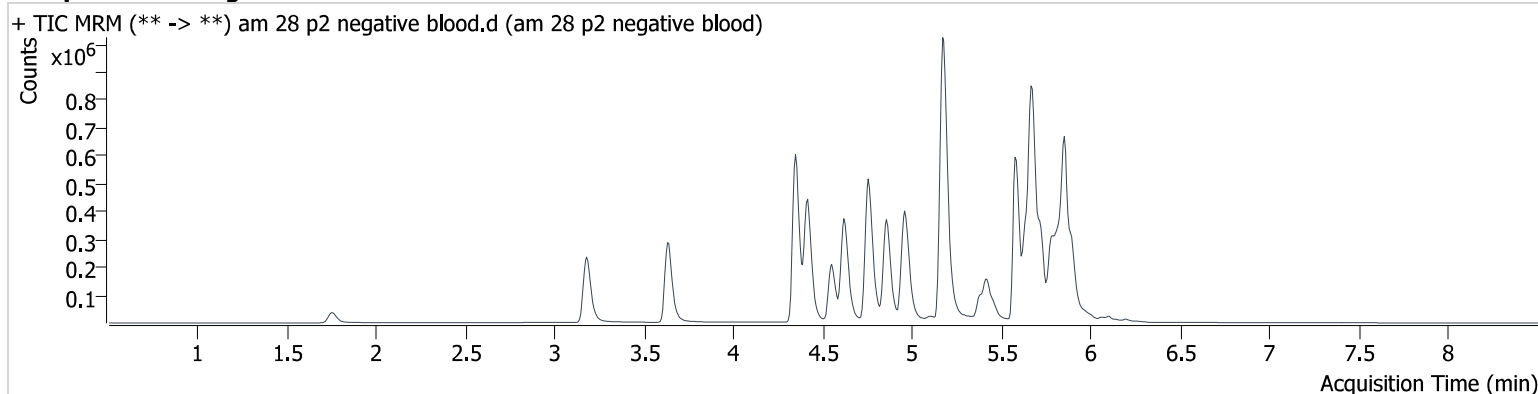
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**Instrument** 69679  
**Type** Sample  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-E6  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 7:03:14 PM  
**Sample Info.**

**Data File** am 28 p2 negative blood.d  
**Sample** am 28 p2 negative blood  
**Operator** Anne Nord  
**Comment**

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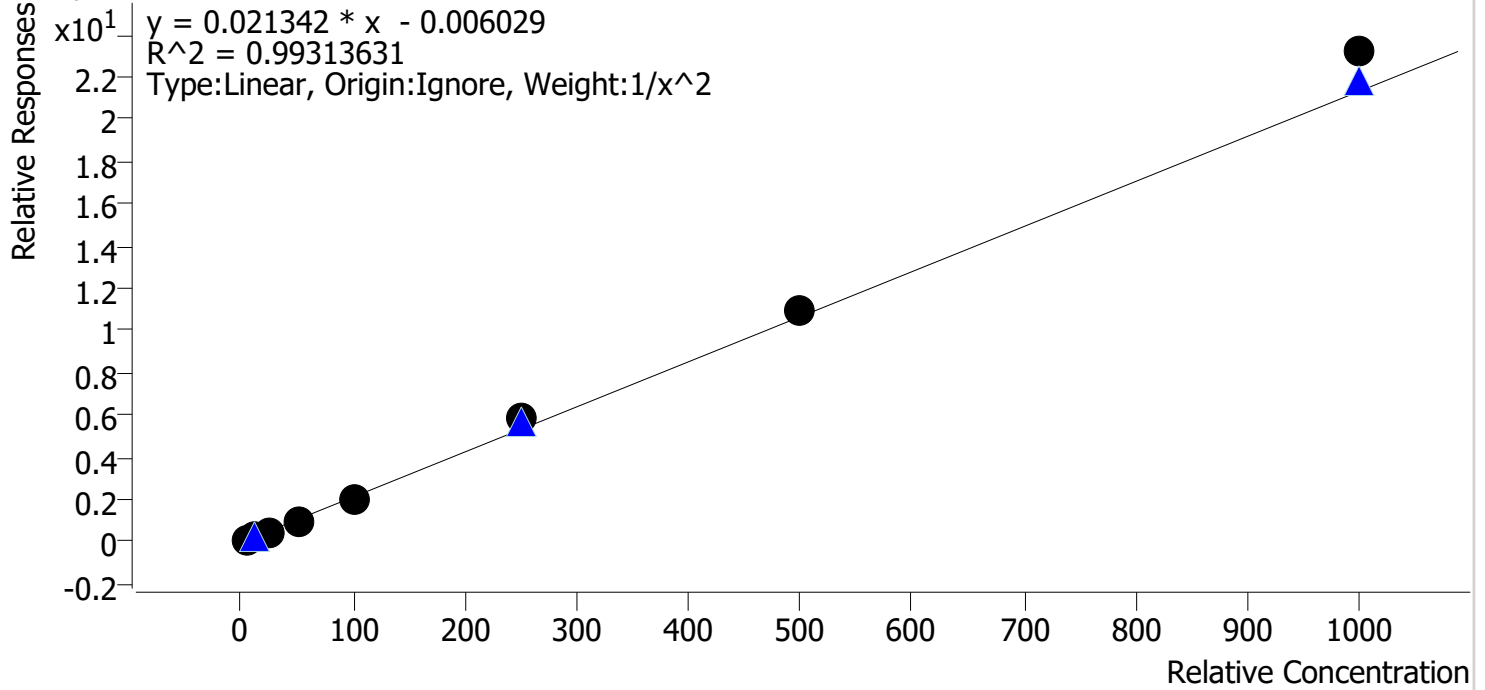
## Sample Chromatogram



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 28 p2.batch samples.bin.batch.bin  
**Last Cal. Update** 11/20/2024 4:33 PM  
**Analyst Name** ISP\datastor  
**Analyte** Clomipramine **Internal Standard** Clomipramine-D3

Clomipramine - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

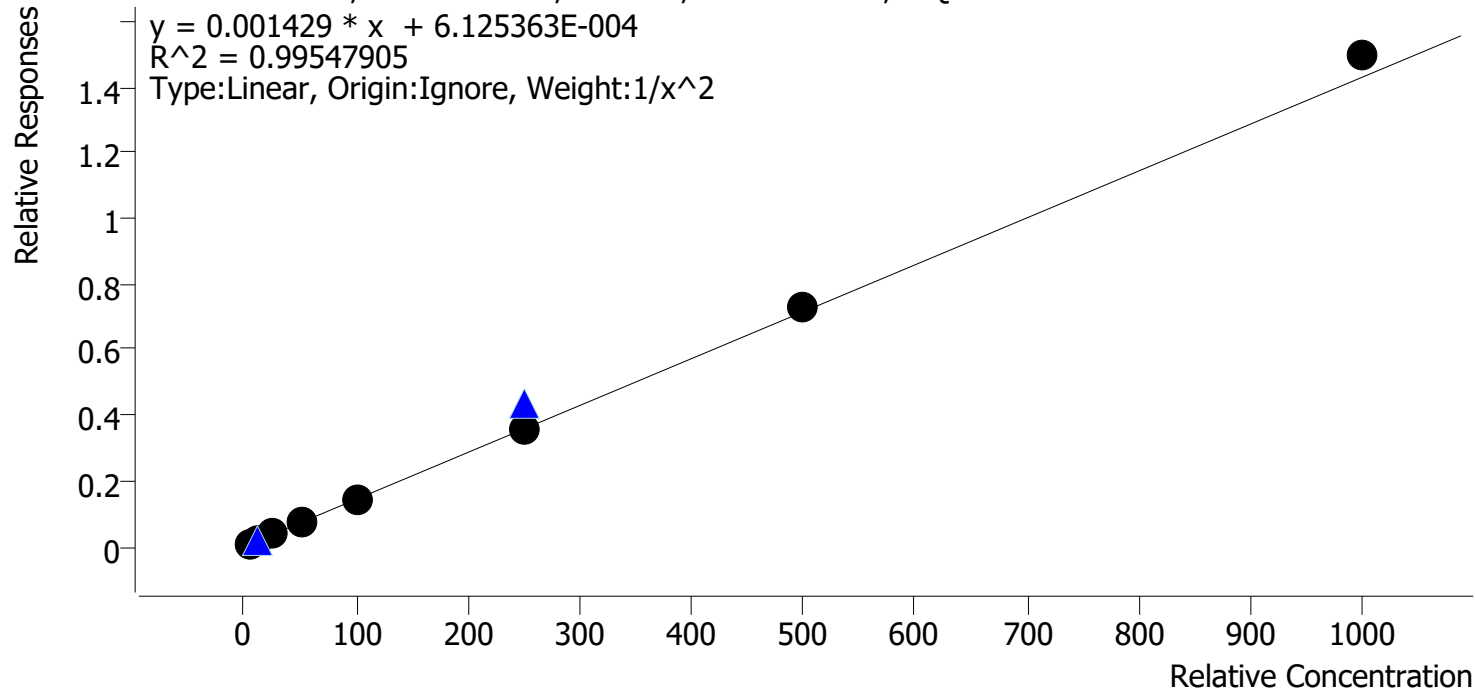


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
am 28 p2 cal 1 mdq	1	✓	5.0	5.3	105.5
am 28 p2 cal 2 mdq	2	✓	10.0	9.3	93.2
am 28 p2 cal 3 mdq	3	✓	25.0	23.2	92.7
am 28 p2 cal 4 mdq	4	✓	50.0	46.8	93.5
am 28 p2 cal 5 mdq	5	✓	100.0	94.4	94.4
am 28 p2 cal 6 mdq	6	✓	250.0	271.3	108.5
am 28 p2 cal 7 mdq	7	✓	500.0	516.5	103.3
am 28 p2 cal 8 mdq	8	✓	1000.0	1088.2	108.8

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 28 p2.batch samples.bin.batch.bin  
**Last Cal. Update** 11/20/2024 4:33 PM  
**Analyst Name** ISP\datastor  
**Analyte** methocarbamol **Internal Standard** Imipramine-D3

methocarbamol - 8 Levels, 8 Levels Used, 8 Points, 8 Points Used, 3 QCs

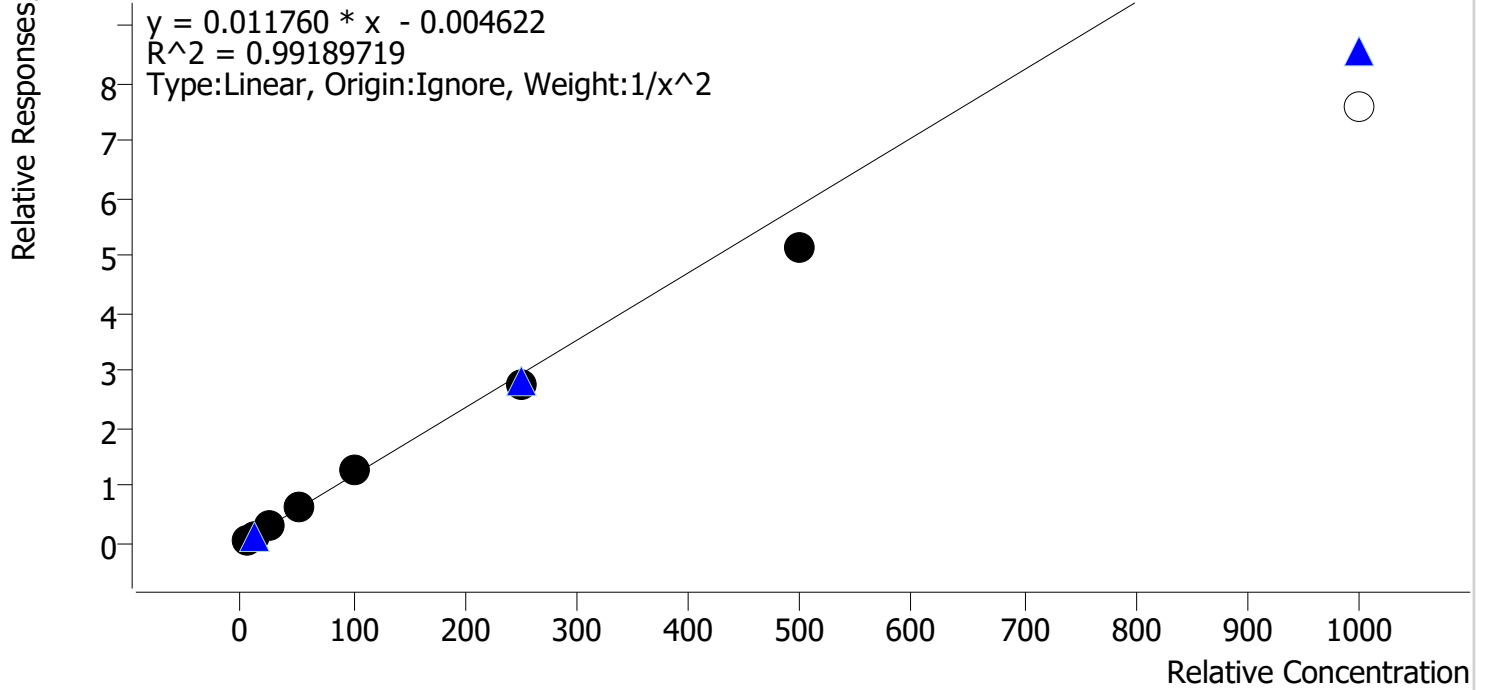


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
am 28 p2 cal 1 mdq	1	✓	5.0	5.3	106.1
am 28 p2 cal 2 mdq	2	✓	10.0	8.7	87.1
am 28 p2 cal 3 mdq	3	✓	25.0	25.1	100.5
am 28 p2 cal 4 mdq	4	✓	50.0	51.4	102.9
am 28 p2 cal 5 mdq	5	✓	100.0	98.7	98.7
am 28 p2 cal 6 mdq	6	✓	250.0	246.8	98.7
am 28 p2 cal 7 mdq	7	✓	500.0	506.7	101.3
am 28 p2 cal 8 mdq	8	✓	1000.0	1046.2	104.6

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 28 p2.batch samples.bin.batch.bin  
**Last Cal. Update** 11/20/2024 4:33 PM  
**Analyst Name** ISP\datastor  
**Analyte** Topiramate **Internal Standard** Topiramate-d12

Topiramate - 8 Levels, 7 Levels Used, 8 Points, 7 Points Used, 3 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
am 28 p2 cal 1 mdq	1	✓	5.0	4.9	97.8
am 28 p2 cal 2 mdq	2	✓	10.0	9.9	99.5
am 28 p2 cal 3 mdq	3	✓	25.0	27.6	110.4
am 28 p2 cal 4 mdq	4	✓	50.0	51.4	102.8
am 28 p2 cal 5 mdq	5	✓	100.0	107.2	107.2
am 28 p2 cal 6 mdq	6	✓	250.0	236.5	94.6
am 28 p2 cal 7 mdq	7	✓	500.0	439.0	87.8
am 28 p2 cal 8 mdq	8	✗	1000.0	648.1	64.8

# AM #28 Multi-Drug Quant. Results

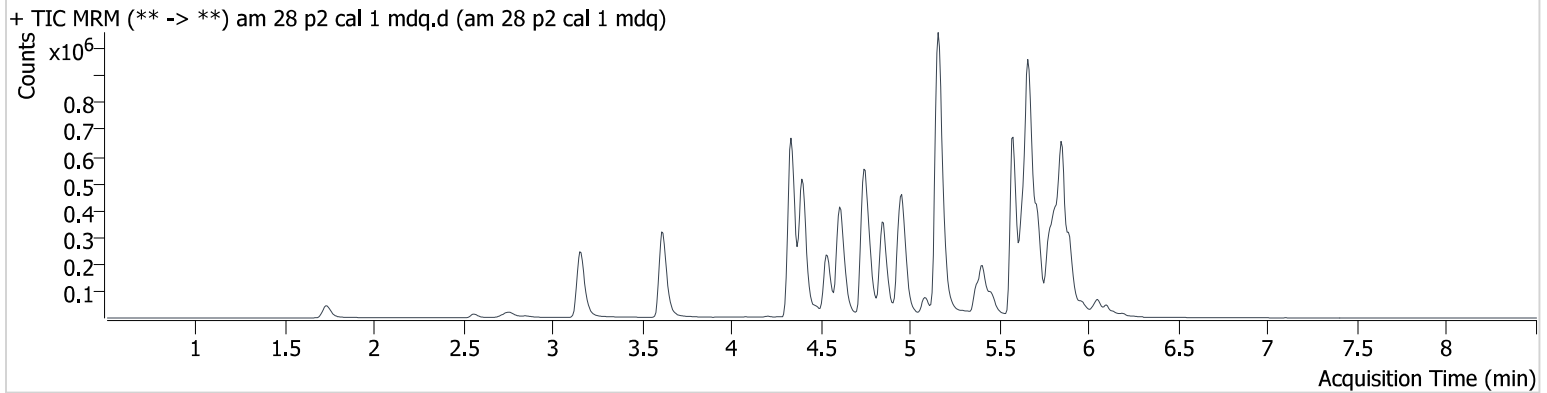
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**Instrument** 69679  
**Type** Cal  
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**Sample Position** P2-A5  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 5:03:18 PM  
**Sample Info.**

**Data File** am 28 p2 cal 1 mdq.d  
**Sample** am 28 p2 cal 1 mdq  
**Operator** Anne Nord

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.842	65657	1563.5	89.59	2233.2	615968	5.277 ng/ml
methocarbamol	4.367	6196	145.5	77.27	111.3	756179	5.306 ng/ml
Topiramate	4.935	308	8.0	53.77	13.9	5827	4.889 ng/ml

# AM #28 Multi-Drug Quant. Results

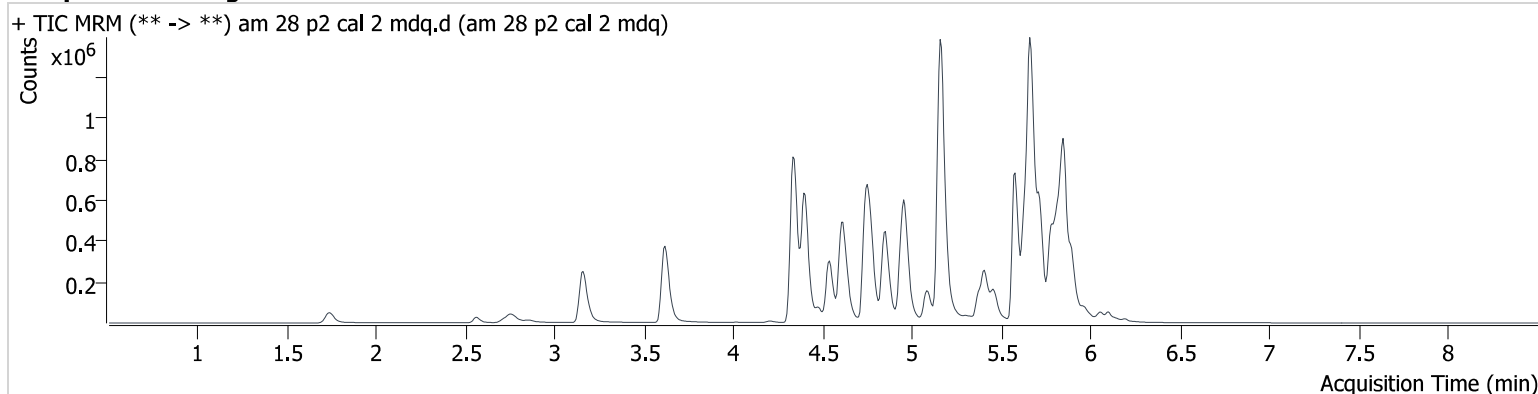
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**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-B5  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 5:12:32 PM  
**Sample Info.**

**Data File** am 28 p2 cal 2 mdq.d  
**Sample** am 28 p2 cal 2 mdq  
**Operator** Anne Nord  
**Comment**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.842	163275	94882.1	92.89	2236.5	846578	9.320 ng/ml
methocarbamol	4.367	12474	311.3	73.48	113.7	955655	8.707 ng/ml
Topiramate	4.935	666	51.9	49.26	26.1	5928	9.949 ng/ml

# AM #28 Multi-Drug Quant. Results

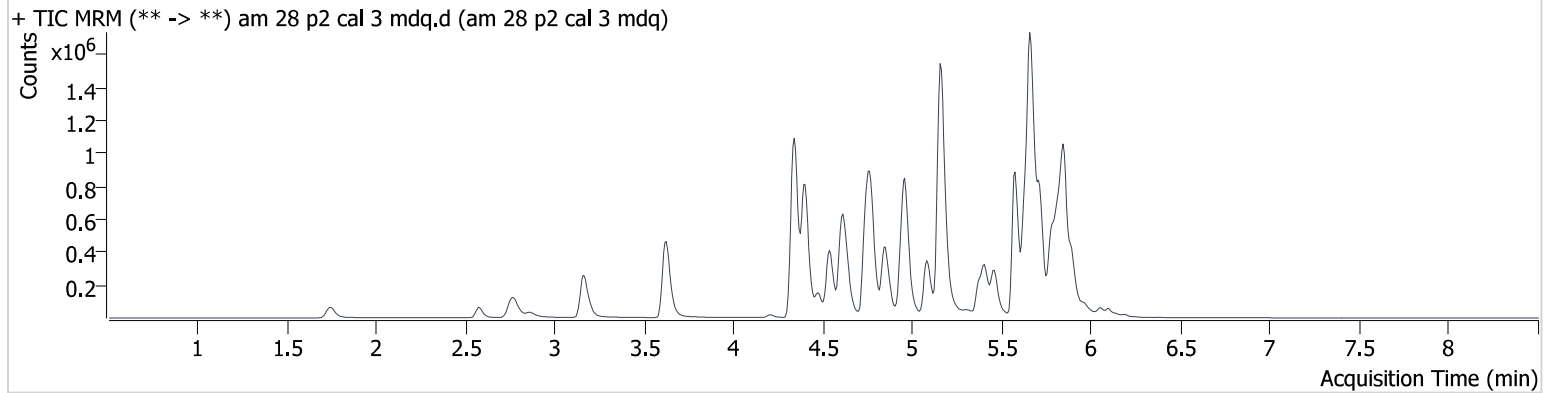
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**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-C5  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 5:21:46 PM  
**Sample Info.**

**Data File** am 28 p2 cal 3 mdq.d  
**Sample** am 28 p2 cal 3 mdq  
**Operator** Anne Nord

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.842	336172	239302.9	89.63	2092.7	688097	23.175 ng/ml
methocarbamol	4.367	29384	1007.6	75.60	4689.4	804457	25.137 ng/ml
Topiramate	4.935	1982	237.2	50.09	449.2	6196	27.594 ng/ml

# AM #28 Multi-Drug Quant. Results

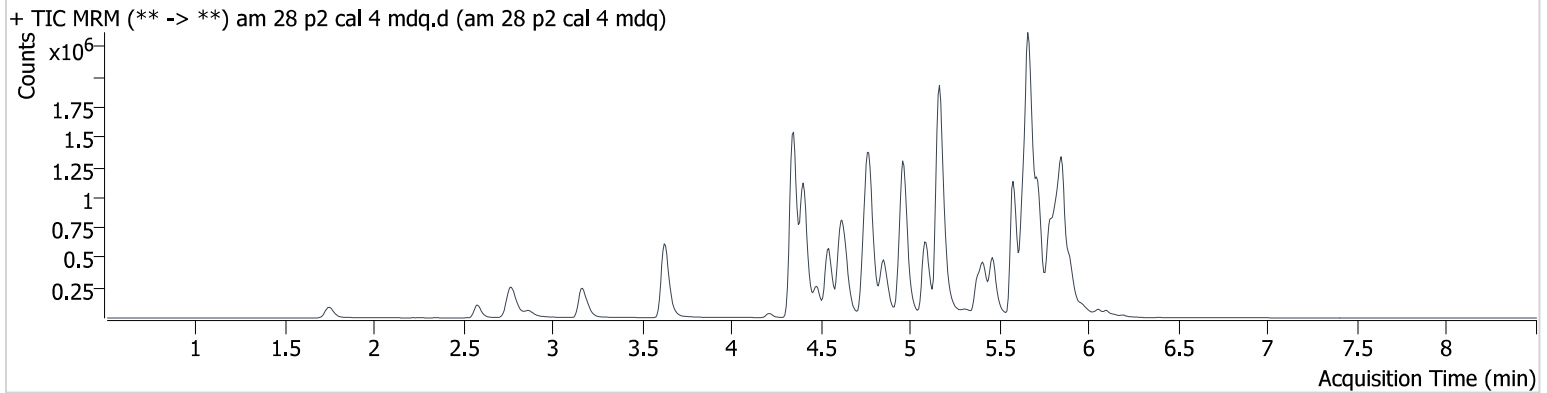
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**Type** Cal  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-D5  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 5:30:59 PM  
**Sample Info.**

**Data File** am 28 p2 cal 4 mdq.d  
**Sample** am 28 p2 cal 4 mdq  
**Operator** Anne Nord  
**Comment**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.842	575487	12781.1	89.85	9892.4	580022	46.773 ng/ml
methocarbamol	4.373	53490	1009.8	79.88	796.2	722003	51.425 ng/ml
Topiramate	4.935	3497	287.9	47.16	1049.8	5831	51.391 ng/ml



# AM #28 Multi-Drug Quant. Results

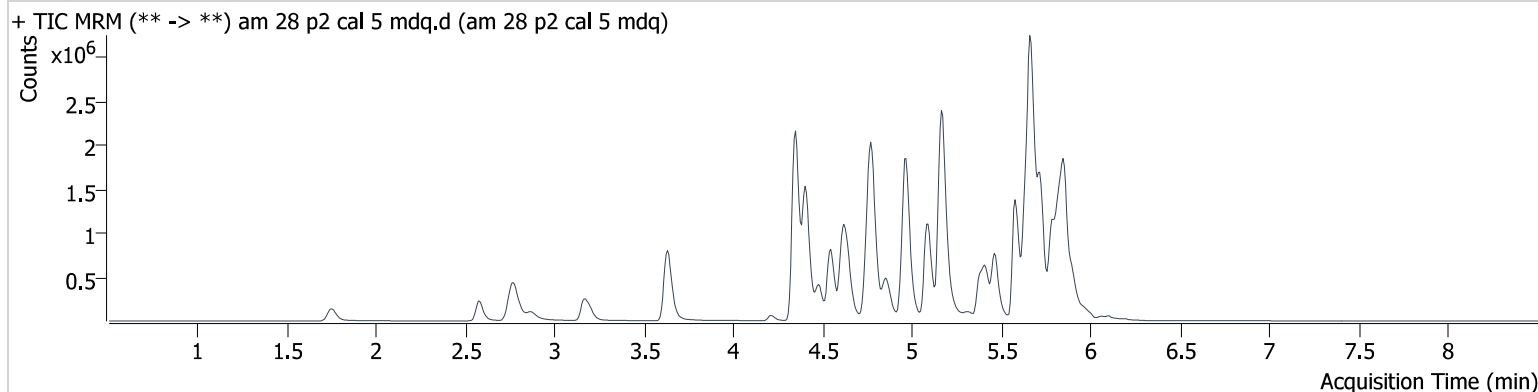
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**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-E5  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 5:40:13 PM  
**Sample Info.**

**Data File** am 28 p2 cal 5 mdq.d  
**Sample** am 28 p2 cal 5 mdq  
**Operator** Anne Nord  
**Comment**

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.849	1028548	999540.9	90.93	7642.3	512088	94.396 ng/ml
methocarbamol	4.373	86320	4309.9	80.03	827.4	609337	98.724 ng/ml
Topiramate	4.935	6811	533.0	43.96	95.7	5423	107.186 ng/ml

# AM #28 Multi-Drug Quant. Results

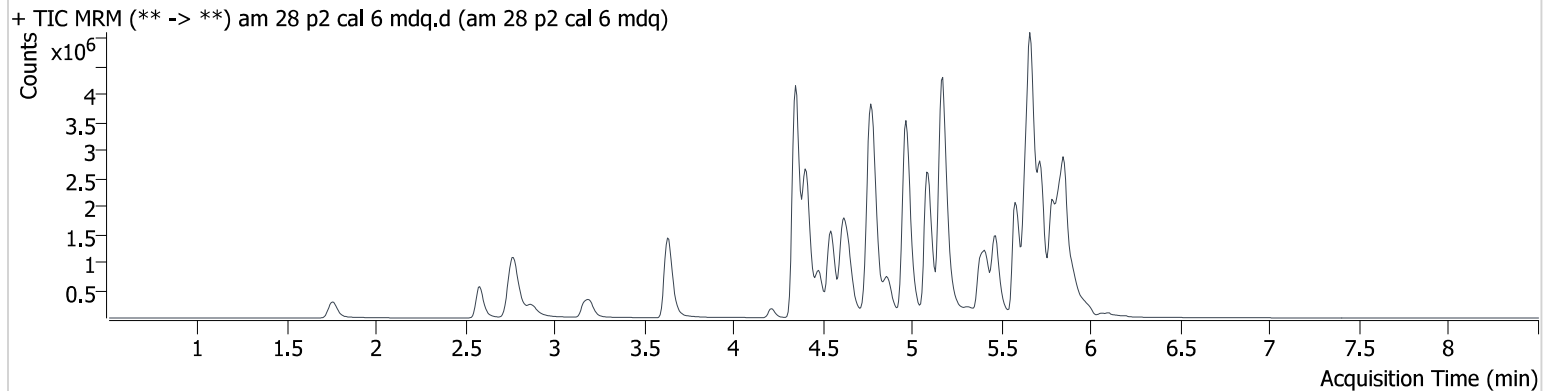
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**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-F5  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 5:49:27 PM  
**Sample Info.**

**Data File** am 28 p2 cal 6 mdq.d  
**Sample** am 28 p2 cal 6 mdq  
**Operator** Anne Nord

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## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.849	1979033	93500.1	83.74	33719.9	342175	271.288 ng/ml
methocarbamol	4.373	160047	2103.2	83.10	31270.2	453067	246.820 ng/ml
Topiramate	4.935	14730	6381.6	45.77	217.5	5306	236.466 ng/ml

# AM #28 Multi-Drug Quant. Results

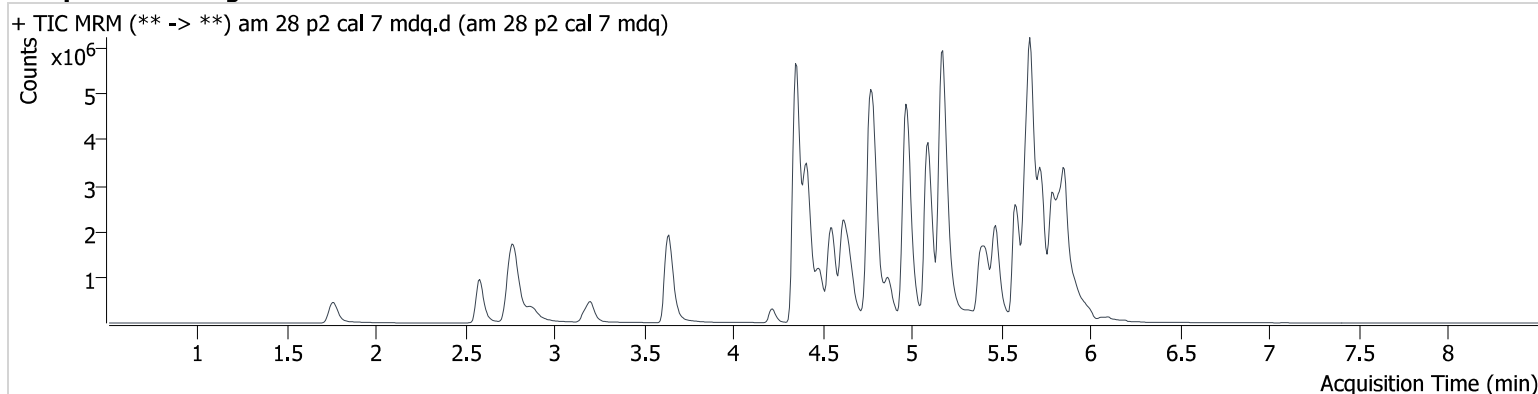
**Batch results** D:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 28 p2.batch samples.bin.batch.bin  
**Calibration Last Update** 11/20/2024 4:33:20 PM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-G5  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 5:58:40 PM  
**Sample Info.**

**Data File** am 28 p2 cal 7 mdq.d  
**Sample** am 28 p2 cal 7 mdq  
**Operator** Anne Nord  
**Comment**

Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.849	2325643	4411.7	90.03	7917.6	211114	516.461 ng/ml
methocarbamol	4.380	208233	23932.6	79.25	15457.4	287404	506.687 ng/ml
Topiramate	4.935	24790	641.4	44.19	455.1	4806	439.029 ng/ml

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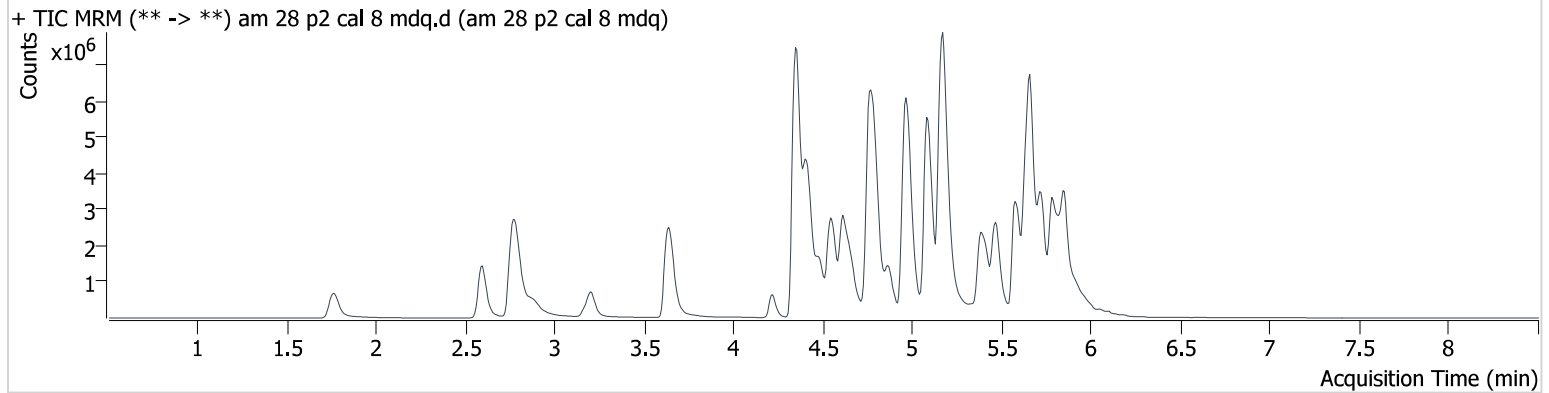
**Batch results** D:\MassHunter\Data\2024\am 27-28\111924\QuantResults\am 28 p2.batch samples.bin.batch.bin  
**Calibration Last Update** 11/20/2024 4:33:20 PM

**Instrument** 69679  
**Type** Cal  
**Acq. Method** mdqp2 2023.m  
**Sample Position** P2-H5  
**Injection Volume** 5  
**Acq. Date-Time** 11/19/2024 6:07:54 PM  
**Sample Info.**

**Data File** am 28 p2 cal 8 mdq.d  
**Sample** am 28 p2 cal 8 mdq  
**Operator** Anne Nord

**Comment** Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

## Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
Clomipramine	5.849	2268731	12901.8	89.50	28246.1	97719	1088.153 ng/ml
methocarbamol	4.380	242112	60665.9	83.44	184538.9	161914	1046.174 ng/ml
Topiramate	4.935	37782	614.9	43.38	448.9	4960	648.083 ng/ml